

At a Glance

	Monday, May 11, 2015				Tuesday, May 12, 2015				Wednesday, May 13, 2015				Thursday, May 14, 2015															
	Standley I	Westminster II	Westminster I	Standley II	Standley I	Westminster II	Westminster I	Standley II	Standley I	Westminster II	Westminster I	Standley II	Standley I	Westminster II	Westminster I	Standley II												
8:00a - 9:00a	Plenary Wendy Harrison, Colorado School of Mines The Colorado Collaboration for SUBsurface Research in Geothermal Energy (SURGE) room: Westminster III & IV				Mike Pacheco, NREL Geothermal's Role in an "All of the Above" Energy Strategy room: Westminster III & IV				Lauren Boyd, DOE Frontier Observatory of Research and Geothermal Energy (FORGE) room: Westminster III & IV				Marianne Walck, Sandia National Laboratory Subsurface Engineering R&D Crosscut (SubTER): adaptive control of fractures and fluid flow room: Westminster III & IV															
9:00a - 9:30a	Systems Analysis: Systems Analysis, Resources Assessment, Data System Development & Population, Education	HRC: Reservoir Fracture Characterization & Fluid Imaging	EGS: Tracers / Zonal Isolation / Geochemistry	EGS: Innovative Stimulation Techniques	Low Temp: Hybrid/Value Added Systems	HRC: Exploration Validation / Play Fairway Analysis	cont'd EGS: High Temp Tools, Drilling Systems	cont'd EGS: Enhanced Geothermal System Demonstrations	Low Temp: Mineral Recovery	HRC: Systems Analysis, Resources Assessment, Data System Development & Population, Education	cont'd EGS: Reservoir Modeling	No Meetings	Low Temp: Low Temperature, Co- Production Demonstration	HRC: Tracers / Zonal Isolation / Geochemistry	cont'd EGS: Reservoir Fracture Characterization & Fluid Imaging	No Meetings												
9:30a - 10:00a																												
10:00a - 10:30a																												
10:30a - 11:00a																												
11:00a - 11:30a				EGS: Supercritical Carbon Dioxide/ Working Fluids						HRC: High Temp Tools, Drilling Systems																		
11:30a - 12:00a																												
12:00p - 12:40p																												
12:40p - 2:00p	Lunch - Tim Reinhardt, DOE Vision Study room: Westminster III & IV				Lunch - Michael Weathers, DOE Play Fairway RFI Session room: Westminster III & IV				Lunch - Erick Burns, USGS New Tools for Understanding Heat and Groundwater Flow in the Northwest Volcanic Aquifer Province, USA room: Westminster III & IV				Lunch - Jay Nathwani, DOE FY16 Lab AOP Session room: Westminster III & IV															
2:00p - :230p											EGS: Reservoir Fracture Characterization & Fluid Imaging	No Meetings		Industry Play Fairway Workshop – Request for Information	Code Comparison Workshop	No Meetings												
2:30p - 3:00p																												
3:00p - 3:30p																												
3:30p - 4:00p																												
4:00p - 4:30p		HRC: Exploration Validation / Play Fairway Analysis	EGS: High Temp Tools, Drilling Systems																									
4:30p - 5:00p			EGS: Enhanced Geothermal System Demonstrations												Geochemistry/ Tracers Workshop													
5:00p - 5:40p			EGS: Reservoir Modeling																									
					Play Fairway Focus Discussion with PFA Award Recipients				DOE Resource Reporting Methodology Effort - Update/Discussion																			

Notes

2015 PROJECT PEER REVIEW		GEOTHERMAL TECHNOLOGIES OFFICE				Monday May 11		The Westin Westminster 303-410-5000 10600 Westminster Blvd, Westminster CO 80020		print date 03/06/2015		
U.S. DEPARTMENT OF ENERGY GEOTHERMAL TECHNOLOGIES OFFICE												
Track 1-Systems Analysis & LowTemp - Room Standley I			Track 2 HRC - Room Westminster II			Track 3 EGS1 - Room Westminster I			Track 4 EGS2 - Room Standley II			
Time	Panel	Presenter(s), Awardee (or Organization), Project Title	Time	Panel	Presenter(s), Awardee (or Organization), Project Title	Time	Panel	Presenter(s), Awardee (or Organization), Project Title	Time	Panel	Presenter(s), Awardee (or Organization), Project Title	
8:00a-9:00a 60 min		Wendy Harrison, Colorado School of Mines Plenary - The Colorado Collaboration for SUBsurface Research in Geothermal Energy (SURGE) room: Westminster III & IV	8:00a-9:00a 60 min		Wendy Harrison, Colorado School of Mines Plenary - The Colorado Collaboration for SUBsurface Research in Geothermal Energy (SURGE) room: Westminster III & IV	8:00a-9:00a 60 min		Wendy Harrison, Colorado School of Mines Plenary - The Colorado Collaboration for SUBsurface Research in Geothermal Energy (SURGE) room: Westminster III & IV	8:00a-9:00a 60 min		Wendy Harrison, Colorado School of Mines Plenary - The Colorado Collaboration for SUBsurface Research in Geothermal Energy (SURGE) room: Westminster III & IV	
9:00a-9:30a 30 min	Systems Analysis: Data System Development & Population, Education Resources Assessment, Vision Study room: Westminster III & IV	Tom Lowry, SNL GT-Mod	9:00a-9:30a 30 min	HRC: Reservoir Fracture Characterization & Fluid Imaging	Rob Mellors, LLNL Stochastic Joint Inversion for Integrated Data Interpretation in Geothermal Exploration	9:00a-9:30a 30 min	EGS: Tracers / Zonal Isolation / Geochemistry	Lyle Burns, Clean Tech Innovations, LLC SPI Conformance Gel Applications in Geothermal Zonal Isolation	9:00a-9:30a 30 min	EGS: Innovative Stimulation Techniques	Carlos Fernandez, PNNL Reservoir Stimulation Optimization with Operational Monitoring for Creation of EGS	
9:30a-10:00a 30 min		Steve Weakley, PNNL Technology Tracking	9:30a-10:00a 30 min		Dr Andre Revil, Colorado School of Mines Time-lapse joint inversion of GEOphysical Data and its application to gEothermal prospecting - GEODE	9:30a-10:00a 30 min		Jefferson Tester, Cornell University A Reactive Tracer Method for Predicting EGS Reservoir Geometry and Thermal Lifetime: Development and Field Validation	9:30a-10:00a 30 min		Mark Grubelich, SNL Gas Generator Development and Testing for Controlled Rapid Pressurization Using Liquid Propellants for EGS Well Stimulation	
10:00a-10:30a 30 min		Greg Mines, INL GETEM	10:00a-10:30a 30 min		Robert Mellors, LLNL Identifying High Potential Well Targets with 3D Seismic, and Mineralogy	10:00a-10:30a 30 min		John Christensen, LBNL Radioisotope Tracers and Fracture Attributes for Enhanced Geothermal Systems	10:00a-10:30a 30 min		Charles Carrigan, LLNL Validation of EGS Feasibility and Explosive Fracturing Techniques	
10:30a-10:40a 10 min		Audience Q&A			10:30a-10:40a 10 min	Audience Q&A		10:30a-10:40a 10 min	Audience Q&A			
10:40a-11:00a 20 min		Break			10:40a-11:00a 20 min	Break		10:40a-11:00a 20 min	Break			
11:00a-11:30a 30 min		Thomas Edmunds, LLNL The Value of Geothermal Power for Integration of Intermittent Generation	11:00a-11:30a 30 min		Chad Augustine, NREL SURGE: Sedimentary Geothermal Feasibility Study	11:00a-11:30a 30 min		Richard A. Kemp, SNL Tagged Nanoparticles for Fluid Flow Monitoring	11:00a-11:30a 30 min	Wrap Up: Innovative Stimulation Techniques Session		
11:30a-12:00p 30 min		Jordan Macknick, NREL Projected Deployment of Geothermal Technologies Subject to Water Availability Constraints	11:30a-12:00p 30 min		Lianjie Huang, LANL Imaging Fault Zones Using a Novel Elastic Reverse-Time Migration Imaging Technique	11:30a-12:00p 30 min		Toshi Sugama, BNL Temporary Sealer Materials	11:30a-12:00p 30 min	EGS: Supercritical Carbon Dioxide/Working Fluids	Curt Oldenburg, LBNL Push-pull well testing using CO2 with active source geophysical monitoring	
12:00p-12:30p 30 min		Chad Augustine, NREL Strategic Analysis	12:00p-12:30p 30 min		Chad Augustine, NREL SURGE: Completing Horizontal Geothermal Wells	12:00p-12:30p 30 min		Kevin Knauss, LBNL Fluid Chemistry and Fracture Growth: What's the Connection?	12:00p-12:30p 30 min		Tom Buscheck , LLNL Active Management of Integrated Geothermal CO2 Storage Reservoirs in Sedimentary Formations	
12:30p-12:40p 10 min		Audience Q&A			12:30p-12:40p 10 min	Audience Q&A		12:30p-12:40p 10 min	Audience Q&A			
12:40p-2:00p 80 min		Lunch - Tim Reinhardt, DOE Vision Study room: Westminster III & IV			12:40p-2:00p 80 min	Lunch - Tim Reinhardt, DOE Vision Study room: Westminster III & IV		12:40p-2:00p 80 min	Lunch - Tim Reinhardt, DOE Vision Study room: Westminster III & IV			
2:00p-2:30p 30 min		Dan Getman, NREL Geothermal Prospector	2:00p-2:30p 30 min	Wrap up: Reservoir Fracture Characterization & Fluid Imaging			2:00p-2:30p 30 min	Wrap Up: Tracers / Zonal Isolation / Geochemistry Session			2:00p-2:30p 30 min	EGS: Enhanced Geothermal System Demonstrations
2:30p-3:00p 30 min	Chad Augustine, NREL Geothermal Resource Potential and Supply Curve Improvement	2:30p-3:00p 30 min	James Faulds, Nevada Bureau of Mines and Geology, University of Nevada-Reno Discovering Blind Geothermal Systems in the Great Basin Region: An Integrated Geologic and Geophysical Approach for Establishing Geothermal Play Fairways	2:30p-3:00p 30 min	Kamalesh Chatterjee, Baker Hughes Oilfield Operations Incorporated Recovery Act: High Temperature 300C Directional Drilling System, including drill bit, steerable motor, and drilling fluid, for Enhanced Geothermal Systems	2:30p-2:40p 10 min	Audience Q&A					
3:00p-3:30p 30 min	Katherine Young, NREL Regulatory Roadmap	3:00p-3:30p 30 min	Nicole Lautze, University of Hawaii Comprehensive analysis of Hawaii's geothermal potential through Play Fairway integration of geophysical, geochemical, and geological data	3:00p-3:30p 30 min	Ken Waterman, DRAKA CABLETEQ USA, INC. Recovery Act: Complete Fiber/Copper Cable Solution for Long-Term Temperature and Pressure Measurement in Supercritical Reservoirs and EGS Wells	3:10p-3:40p 30 min						
3:30p-3:40p 10 min	Audience Q&A		3:30p-3:40p 10 min	Audience Q&A		3:30p-3:40p 10 min	Audience Q&A		3:40p-4:00p 20 min	Break		
3:40p-4:00p 20 min	Break		3:40p-4:00p 20 min	Break		3:40p-4:00p 20 min	Break		4:00p-4:30p 30 min	EGS: Enhanced Geothermal System Demonstrations	Joseph Moore, University of Utah Concept Testing and Development at the Raft River Geothermal Field, Idaho	
4:00p-4:30p 30 min	Colin Williams, U.S. Geological Survey National Geothermal Resource Assessment and Classification		4:00p-4:30p 30 min	Patrick Walsh, ORMAT Nevada, Inc. Recovery Act: Merging high resolution geophysical and geochemical surveys to reduce exploration risk at Glass Buttes, Oregon	4:00p-4:30p 30 min	Kamalesh Chatterjee, Baker Hughes Oilfield Operations Incorporated Directional Measurement-While-Drilling System for Geothermal Applications	4:00p-4:30p 30 min	Mitch Plummer, INL EGS Reservoir Stimulations and Long-Term Performance Modeling				
4:30p-4:40p 10 min	Audience Q&A		4:30p-5:00p 30 min	Lisa Shevenell, Atlas Geosciences Inc. Geothermal Potential of the Cascade and Aleutian Arcs, with Ranking of Individual Volcanic Centers for their Potential to Host Electricity-Grade Reservoirs	4:30p-5:00p 30 min	Dr. Bjorn Paulsson, Paulsson, Inc. Development of a 300°C, 200 level, 3C Fiber Optic Downhole Seismic Receiver Array for Surveying and Monitoring of Geothermal Reservoirs	4:30p-5:00p 30 min	Lianjie Huang, LANL Joint Active and Passive Seismic Imaging of EGS Reservoirs				
4:40p-5:10p 30 min	Wrap up: Systems Analysis Session		5:00p-5:30p 30 min	Patrick Walsh, ORMAT Nevada, Inc. Recovery Act: Blind Geothermal System Exploration in Active Volcanic Environments	5:00p-5:30p 30 min	Darren Laughlin, A-Tech Corporation Rotation-Enabled 7-DOF Seismometer for Geothermal Resource Development	5:00p-5:30p 30 min					
5:10p-5:40p 30 min			5:30p-5:40p 10 min	Audience Q&A		5:30p-5:40p 10 min	Audience Q&A		5:30p-5:40p 10 min	Audience Q&A		

2015 PROJECT PEER REVIEW		GEOTHERMAL TECHNOLOGIES OFFICE		Tuesday May 12		The Westin Westminster 303-410-5000 10600 Westminster Blvd, Westminster CO 80020						
U.S. DEPARTMENT OF ENERGY GEOTHERMAL TECHNOLOGIES OFFICE						print date 03/06/2015						
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Time	Panel	Presenter(s), Awardee (or Organization), Project Title	Time	Panel	Presenter(s), Awardee (or Organization), Project Title	Time	Panel	Presenter(s), Awardee (or Organization), Project Title	Time	Panel	Presenter(s), Awardee (or Organization), Project Title	
8:00a-9:00a 60 min Mike Pacheco, NREL Geothermal's Role in an "All of the Above" Energy Strategy room: Westminster III & IV			8:00a-9:00a 60 min Mike Pacheco, NREL Geothermal's Role in an "All of the Above" Energy Strategy room: Westminster III & IV			8:00a-9:00a 60 min Mike Pacheco, NREL Geothermal's Role in an "All of the Above" Energy Strategy room: Westminster III & IV			8:00a-9:00a 60 min Mike Pacheco, NREL Geothermal's Role in an "All of the Above" Energy Strategy room: Westminster III & IV			
9:00a-9:30a 30 min	Low Temp: Hybrid/Value Added Systems	Craig Turchi, NREL Low-Enthalpy Geothermal Desalination	9:00a-9:30a 30 min	HRC: Exploration Validation / Play Fairway Analysis	John Shervais, Utah State University Play Fairway Analysis of the Snake River Plain	9:00a-9:30a 30 min	cont'd -- EGS: High Temp Tools, Drilling Systems	Randy Norman, Perma Works Well Monitoring Systems for EGS	9:00a-9:30a 30 min	cont'd -- EGS: Enhanced Geothermal System Demonstrations	Susan Petty, AltaRock Energy, Inc. Recovery Act: Newberry Volcano EGS Demonstration	
9:30a-10:00a 30 min		David. J. Heldebrant, PNNL Geothermal Power Generation and CO2 Capture Co-Production	9:30a-10:00a 30 min		James McClain, University of California-Davis Geothermal Play Fairway Analysis of Potential Geothermal Resources in NE California, NW Nevada, and Southern Oregon	9:30a-10:00a 30 min		Grzegorz Cieslewski, SNL High Temperature Chemical Sensing Tool for Distributed Mapping of Fracture Flow in EGS	9:30a-10:00a 30 min		Eric Sonnenthal, LBNL Evaluation of Stimulation at Newberry Volcano EGS Demo Site Through Natural Isotopic Reactive Tracers and Geochemical Investigation	
10:00a-10:30a 30 min		Pete McGrail, PNNL Integrating Compressed Air Energy Storage and Geothermal for Grid-Scale Renewables Integration	10:00a-10:30a 30 min		David Norman, Washington Division of Geology and Earth Resources Geothermal Play-Fairway Analysis of Washington State Prospects	10:00a-10:30a 30 min		David Raymond, SNL High Temperature Downhole Motor	10:00a-10:30a 30 min		Peter Drakos, Ormat Nevada, Inc. Feasibility of EGS Development at Bradys Hot Springs, Nevada	
10:30a-10:40a 10 min		Audience Q&A	10:30a-10:40a 10 min		Audience Q&A	10:30a-10:40a 10 min		Audience Q&A	10:30a-10:40a 10 min		Audience Q&A	
10:40a-11:00a 20 min		Break	10:40a-11:00a 20 min		Break	10:40a-11:00a 20 min		Break	10:40a-11:00a 20 min		Break	
11:00a-11:30a 30 min		Dan Wendt, INL & Craig Turchi, NREL Geothermal risk reduction via geothermal/solar hybrid power plants	11:00a-11:30a 30 min		Phil Wannamaker, University of Utah/EGI Structurally Controlled Geothermal Systems in the Central Cascadia Arc-BackArc Regime, Oregon	11:00a-11:30a 30 min		Grzegorz Cieslewski, SNL Enhanced High Temperature/High Speed Data Link for Logging Cables	11:00a-11:30a 30 min		Sharad Kelkar, LANL Bradys and Desert Peak Numerical Modeling	
11:30a-12:00p 30 min		Greg Mines, INL Forward Osmosis Purification of Co-Produced Water	11:30a-12:00p 30 min		Teresa Jordan, Cornell University Low Temperature Geothermal Play Fairway Analysis for the Appalachian Basin	11:30a-12:00p 30 min		Toshi Sugama, BNL & Doug Blankenship, SNL Elastomeric Material Evaluation and Development	11:30a-12:00p 30 min		Nicholas Davatzes, Temple University Monitoring EGS Stimulation and Reservoir Dynamics with InSAR and MEQ	
12:00p-12:30p 30 min		Pete McGrail, PNNL Development of New Biphasic Metal Organic Working Fluids for Geothermal Systems	12:00p-12:30p 30 min		Phil Wannamaker , University of Utah/EGI Structurally Controlled Geothermal Systems in the Eastern Great Basin Extensional Regime, Utah	12:00p-12:30p 30 min		Grzegorz Cieslewski, SNL Evaluation of High Temperature Components for Use in Geothermal Tools	12:00p-12:30p 30 min		Kurt Feigl, University of Wisconsin-Madison Poroeleastic Tomography by Adjoint Inverse Modeling of Data from Seismology, Geodesy, and Hydrology	
12:30p-12:40p 10 min	Audience Q&A	12:30p-12:40p 10 min	Audience Q&A	12:30p-12:40p 10 min	Audience Q&A	12:30p-12:40p 10 min	Audience Q&A					
12:40p-2:00p 80 min Lunch - Michael Weathers, DOE Play Fairway RFI Session room: Westminster III & IV			12:40p-2:00p 80 min Lunch - Michael Weathers, DOE Play Fairway RFI Session room: Westminster III & IV			12:40p-2:00p 80 min Lunch - Michael Weathers, DOE Play Fairway RFI Session room: Westminster III & IV			12:40p-2:00p 80 min Lunch - Michael Weathers, DOE Play Fairway RFI Session room: Westminster III & IV			
2:00p-2:30p 30 min	Wrap up: Hybrid/Value Added Systems Session	Yarom Polsky, ORNL Freeform Heat Exchangers for Binary Geothermal Power Plants	2:00p-2:30p 30 min	Wrap up: Exploration Validation / Play Fairway Analysis Session	Jerry Smith, Pagosa Verde LLC Recovery Act: Use Remote Sensing Data (selected visible and infrared spectrums) to locate high temp ground anomalies in Colorado.Confirm heat flow potential w/ on-site temp surveys to drill deep resource wells	2:00p-2:30p 30 min	Wrap Up: High Temp Tools, Drilling Systems Session	Ernest L. Majer, LBNL Testing and Calibration of HT Wide-bandwidth Seismic Sensors for EGS Applications and Collaboration with IPGT Program	2:00p-2:30p 30 min	Wrap Up: Enhanced Geothermal System Demonstrations Session	Mark Walters, Calpine - Geysers Power Company LLC Demonstration of an Enhanced Geothermal System at the Northwest Geysers Geothermal Field, California	
2:30p-2:40p 30 min		Audience Q&A	2:30p-3:00p 30 min		Dr. Greg Nash (PI) & Carlon Bennett, Ruby Mountain Inc. The Convergence of Heat, Groundwater, & Fracture Permeability: Innovative Play Fairway Modelling Applied to the Tularosa Basin	2:30p-3:00p 30 min		Grzegorz Cieslewski, SNL Deployment of Integrated Wide Bandgap Sensor, HT Packaging, and Data Communication System	2:30p-3:00p 30 min		Jonny Rutqvist, LBNL Geysers Calpine Modeling	
2:40p-3:10p 10 min			3:00p-3:30p 30 min		Richard Stephen Middleton, LANL Hydrogeologic windows: Regional Signature Detection for Blind and Traditional Geothermal Play Fairways	3:00p-3:10p 10 min		Audience Q&A	3:00p-3:30p 30 min		Sharad Kelkar, LANL Archive of Fenton Hill Data; Creation and Testing of Data Sets for Simulation and Testing	
3:10p-3:40p 30 min			3:30p-3:40p 10 min		Audience Q&A	3:10p-3:40p 30 min		Wrap Up: High Temp Tools, Drilling Systems Session	3:30p-3:40p 10 min		Audience Q&A	
3:40p-4:00p 20 min	Break		3:40p-4:00p 20 min	Break		3:40p-4:00p 20 min	Break		3:40p-4:00p 20 min	Break		
4:00p-4:30p 30 min			4:00p-4:30p 30 min		Gregory Newman, LBNL Iceland Geophysics: Advanced 3D Geophysical Imaging Technologies for Geothermal Resource Characterization	4:00p-4:30p 30 min			4:00p-4:30p 30 min		Wrap Up: Enhanced Geothermal System Demonstrations Session	
4:30p-5:00p 30 min			4:30p-4:40p 10 min		Audience Q&A	4:30p-5:00p 30 min	EGS: Reservoir Modeling	Eric Sonnenthal, LBNL ARRA THMC Modeling	4:30p-5:00p 30 min			
			4:40p-5:10p 30 min		Wrap up: Exploration Validation / Play Fairway Analysis Session				Dr. Ahmad Ghassemi, Texas Engineering Experiment Station (Texas A&M University) ① Recovery Act: Development of a Geomechanical Framework for the Analysis of MEQ in EGS Experiments (GEYSERS) ② Analysis of Geothermal Reservoir Stimulation using Geomechanics-Based Stochastic Analysis of Injection-Induced Seismicity ③ Three-dimensional Modeling of Fracture Clusters in Geothermal Reservoirs	5:00p-5:30p 30 min		
5:00p-5:30p 30 min			5:10p-5:40p 30 min		Eric Hass, DOE Play Fairway Focus Discussion with PFA Award Recipients	5:00p-5:30p 30 min						
5:30p-5:40p 10 min						5:30p-5:40p 10 min		Audience Q&A	5:30p-5:40p 10 min			
5:40p-8:00p 140 min Poster Session Networking Event in Westminster Foyer			5:40p-8:00p 140 min Poster Session Networking Event in Westminster Foyer			5:40p-8:00p 140 min Poster Session Networking Event in Westminster Foyer			5:40p-8:00p 140 min Poster Session Networking Event in Westminster Foyer			

<div>2015PROJECT PEER REVIEW</div> <div>U.S. DEPARTMENT OF ENERGY GEOTHERMAL TECHNOLOGIES OFFICE</div>		GEOTHERMAL TECHNOLOGIES OFFICE			Wednesday May 13		The Westin Westminster 303-410-5000 10600 Westminster Blvd, Westminster CO 80020		print date 03/06/2015
<div><div></div>Track 1-Systems Analysis & LowTemp - Room Standley I</div>		<div><div></div>Track 2 HRC - Room Westminster II</div>			<div><div></div>Track 3 EGS1 - Room Westminster I</div>		<div><div></div>Track 4 EGS2 - Room Standley II</div>		
Time	Panel	Presenter(s), Awardee (or Organization), Project Title	Time	Panel	Presenter(s), Awardee (or Organization), Project Title	Time	Panel	Presenter(s), Awardee (or Organization), Project Title	
8:00a-9:00a 60 min		Lauren Boyd, DOE Frontier Observatory of Research and Geothermal Energy (FORGE) room: Westminster III & IV	8:00a-9:00a 60 min		Lauren Boyd, DOE Frontier Observatory of Research and Geothermal Energy (FORGE) room: Westminster III & IV	8:00a-9:00a 60 min		Lauren Boyd, DOE Frontier Observatory of Research and Geothermal Energy (FORGE) room: Westminster III & IV	No Meetings
9:00a-9:30a 30 min	Low Temp: Mineral Recovery	Jay Renew, Southern Research Institute Geothermal Thermoelectric Generation (G-TEG) with Integrated Temperature Driven Membrane Distillation and Novel Manganese Oxide for Lithium Extraction	9:00a-9:30a 30 min	HRC: Systems Analysis, Resources Assessment, Data System Development & Population,	Patrick Dobson, LBNL & Katherine Young, NREL Resource Reporting Methodology Analysis and Development of Geothermal Resource Reporting Metric for GTO's Hydrothermal Program	9:00a-9:30a 30 min	cont'd -- EGS: Reservoir Modeling		
9:30a-10:00a 30 min		Susanna Ventura, SRI International Selective Recovery of Metals From Geothermal Brines	9:30a-10:00a 30 min		Greg Mines, INL Hydrothermal Reservoir Productivity	9:30a-10:00a 30 min		Mark White, PNNL Support of the DOE GTO Model Comparison Activity	
10:00a-10:30a 30 min		Robert Zierenberg, University of California - Davis Maximizing REE Recovery in Geothermal Systems	10:00a-10:10a 10 min		Audience Q&A	10:00a-10:30a 30 min		Dr. Derek Elsworth, Pennsylvania State University Recovery Act: THMC Modeling of EGS Reservoirs - Continuum through Discontinuum Representations: Capturing Reservoir Stimulation, Evolution and Induced Seismicity	
10:30a-10:40a 10 min		Audience Q&A	10:10a-10:40a 30 min		Wrap up: Systems Analysis, Resources Assessment, Data System Development & Population, Education Session	10:30a-10:40a 10 min		Audience Q&A	
10:40a-11:00a 20 min		Break	10:40a-11:00a 20 min		Break	10:40a-11:00a 20 min		Break	
11:00a-11:30a 30 min		Athanasios Karamalidis, Carnegie Mellon University Chelating Resins for Selective Separation and Recovery of Rare Earth Elements from Low Temperature Geothermal Water	11:00a-11:30a 30 min	HRC: High Temp Tools, Drilling Systems	Dale Wolfer, Atlas Copco Secoroc LLC Advanced Percussive Drilling Technology for Geothermal Exploration and Development	11:00a-11:30a 30 min	EGS: Reservoir Fracture Characterization & Fluid Imaging	Wrap Up: Reservoir Modeling Session	
11:30a-12:00p 30 min		Raymond Addleman, PNNL Recovery of Rare Earths, Precious Metals and Other Critical Materials from Geothermal Waters with Advanced Sorbent Structures	11:30a-12:00p 30 min		Charlie Visser, NREL SURGE: Geothermal Drilling and Completions: Petroleum Practices Technology Transfer	11:30a-12:00p 30 min		Tim Kneafsey, LBNL Sustainability of Shear-Induced Permeability for EGS Reservoirs	
12:00p-12:30p 30 min		Dean Stull, Tusaar Corp. Environmentally friendly economical sequestration of rare earth metals from geothermal waters	12:00p-12:30p 30 min		Toshi Sugama, BNL Multifunctional Corrosion -resistant Foamed Cement Composites	12:00p-12:30p 30 min		Susan Carroll, LLNL Viability of Sustainable, Self-Propping Shear Zones in EGS: Measurement of Reaction Rates at Elevated Temperatures	
12:30p-12:40p 10 min		Audience Q&A	12:30p-12:40p 10 min		Audience Q&A	12:30p-12:40p 10 min		Audience Q&A	
12:40p-2:00p 80 min		Lunch - Erick Burns, USGS New Tools for Understanding Heat and Groundwater Flow in the Northwest Volcanic Aquifer Province, USA room: Westminster III & IV	12:40p-2:00p 80 min		Lunch - Erick Burns, USGS New Tools for Understanding Heat and Groundwater Flow in the Northwest Volcanic Aquifer Province, USA room: Westminster III & IV	12:40p-2:00p 80 min		Lunch - Erick Burns, USGS New Tools for Understanding Heat and Groundwater Flow in the Northwest Volcanic Aquifer Province, USA room: Westminster III & IV	
2:00p-2:30p 30 min		Caroline Ajo-Franklin, LBNL Engineering Thermophilic Microorganisms to Selectively Extract Strategic Metals from Low Temperature Geothermal Brines	2:00p-2:30p 30 min		George Trabits, Trabits Group, LLC Recovery Act: Development Of An Improved Cement For Geothermal Wells	2:00p-2:30p 30 min		Dr. Ahmad Ghassemi, The Board of Regents of the University of Oklahoma Laboratory-Scale Characterization of EGS Reservoirs	
2:30p-3:00p 30 min		Pete McGrail, PNNL Magnetic Partitioning Nanofluid for Rare Earth Extraction from Geothermal Fluids	2:30p-3:00p 30 min		Douglas Blankenship, SNL Drilling Technologies Evaluation	2:30p-3:00p 30 min		Joe Moore, University of Utah Novel Geothermal Development of Deep Sedimentary systems in the US	
3:00p-3:30p 30 min		Stephen Harrison, Simbol Materials Determination of Rare Earths in Geothermal Brines and Evaluation of Potential Extraction Techniques	3:00p-3:10p 10 min		Audience Q&A	3:00p-3:30p 30 min		Dr. Derek Elsworth, The Pennsylvania State University Surface and Subsurface Geodesy Combined with Active Borehole Experimentation for the Advanced Characterization of EGS Reservoirs	
3:30p-3:40p 10 min		Audience Q&A	3:10p-3:40p 30 min		Wrap up: High Temp Tools and Drilling Systems Session	3:30p-3:40p 10 min		Audience Q&A	
3:40p-4:00p 20 min		Break	3:40p-4:00p 20 min		Break	3:40p-4:00p 20 min		Break	
4:00p-4:30p 30 min	Wrap up: Mineral Recovery Session		4:00p-5:40p 100 min	NREL/LBNL DOE Resource Reporting Methodology Effort-Update/Discussion		4:00p-4:30p 30 min		Dr. Chris Marone, The Pennsylvania State University Leveraging a Fundamental Understanding of Fracture Flow, Dynamic Permeability Enhancement, and Induced Seismicity to Improve Geothermal Energy Production	
4:30p-5:00p 30 min						4:30p-5:00p 30 min		Dr. Matthew Becker, California State University Long Beach Phase I Project: Fiber Optic Distributed Temperature Sensing for Periodic Hydraulic Tests	
5:00p-5:30p 30 min						5:00p-5:30p 30 min		Dr. Christopher White, LA State University Geothermal Resource Development with Zero Mass Withdrawal, Engineered Convection, and Wellbore Energy Conversion	
5:30p-5:40p 10 min						5:30p-5:40p 10 min		Audience Q&A	

<div>2015PROJECT PEER REVIEW</div> <div>U.S. DEPARTMENT OF ENERGY GEOTHERMAL TECHNOLOGIES OFFICE</div>			<div>GEOTHERMAL TECHNOLOGIES OFFICE</div> <div>May 11-14 2015 Peer Review Agenda</div>			<div>Thursday</div> <div>May 14</div>			<div>The Westin Westminster 303-410-5000 10600 Westminster Blvd, Westminster CO 80020</div> <div>print date 03/06/2015</div>		
<div><div></div>Track 1-Systems Analysis & LowTemp - Room Standley I</div>			<div><div></div>Track 2 HRC - Room Westminster II</div>			<div><div></div>Track 3 EGS1 - Room Westminster I</div>			<div><div></div>Track 4 EGS2 - Room Standley II</div>		
<div>Time</div>	<div>Panel</div>	<div>Presenter(s), Awardee (or Organization), Project Title</div>	<div>Time</div>	<div>Panel</div>	<div>Presenter(s), Awardee (or Organization), Project Title</div>	<div>Time</div>	<div>Panel</div>	<div>Presenter(s), Awardee (or Organization), Project Title</div>	<div>Time</div>	<div>Panel</div>	<div>Presenter(s), Awardee (or Organization), Project Title</div>
8:00a-9:00a 60 min		Marianne Walck, Sandia National Laboratory Subsurface Engineering R&D Crosscut (SubTER): adaptive control of fractures and fluid flow room: Westminster III & IV	8:00a-9:00a 60 min		Marianne Walck, Sandia National Laboratory Subsurface Engineering R&D Crosscut (SubTER): adaptive control of fractures and fluid flow room: Westminster III & IV	8:00a-9:00a 60 min		Marianne Walck, Sandia National Laboratory Subsurface Engineering R&D Crosscut (SubTER): adaptive control of fractures and fluid flow room: Westminster III & IV	No Meetings		
9:00a-9:30a 30 min	Low Temp: Low Temperature, Co-Production Demonstration	Chris Luchini, Universal GeoPower LLC Recovery Act: Technical Demonstration and Economic Validation of Geothermally-Produced Electricity from Coproduced Water at Existing Oil/Gas Wells in Texas	9:00a-9:30a 30 min	HRC: Tracers / Zonal Isolation / Geochemistry	Mark Conrad, LBNL & Earl Mattson, INL Geothermometry Mapping of Deep Hydrothermal Reservoirs in Southeastern Idaho	9:00a-9:30a 30 min	cont'd -- EGS: Reservoir Fracture Characterization & Fluid Imaging	Dr. Roland Gritto, Array Information Technology Seismic Analysis of Spatio-Temporal Fracture Generation During EGS Resource Development			
9:30a-10:00a 30 min		William D. Gosnold, University of North Dakota Recovery Act: Electric Power Generation from Low to Intermediate Temperature Resources	9:30a-10:00a 30 min		Patrick Dobson, LBNL Use of He isotopes for geothermal resource identification in the Cascades and Snake River Plain	9:30a-10:00a 30 min		Ileana Tibuleac, Board of Regents, NSHE, obo University of Nevada, Reno Quantifying EGS Reservoir Complexity with an Integrated Geophysical Approach - Improved Resolution Ambient Seismic Noise Interferometry			
10:00a-10:30a 30 min		Greg Mines, INL & Tom Williams, NREL Low Temperature Project Analysis	10:00a-10:30a 30 min		Mack Kennedy, LBNL Surface estimates of deep permeability	10:00a-10:30a 30 min		Stephen Bauer, SNL Laboratory Evaluation of EGS Shear Stimulation			
10:30a-10:40a 10 min		Audience Q&A	10:30a-10:40a 10 min		Audience Q&A	10:30a-10:40a 10 min		Audience Q&A			
10:40a-11:00a 20 min		Break	10:40a-11:00a 20 min		Break	10:40a-11:00a 20 min		Break			
11:00a-11:30a 30 min		Allen Swenson, GeoTek Energy, LLC GeoTek Gravity Head Energy System Pilot Plant Project	11:00a-11:30a 30 min		Nicholas Spycher, LBNL Surprise Valley Geochemistry	11:00a-11:30a 30 min		Philip Bingham, ORNL & Yarom Polsky, ORNL Application of Neutron Imaging and Scattering to Fluid Flow and Fracture in EGS Environments			
11:30a-11:40a 10 min		Audience Q&A	11:30a-11:40a 10 min		Eric Sonnenthal, LBNL Integration of Nontraditional Isotopic Systems Into Reaction-Transport Models of EGS For Exploration, Evaluation of Water-Rock Interaction, and Impacts of Water Chemistry on Reservoir Sustainability	11:30a-11:40a 10 min		Audience Q&A			
11:40a-12:10p 30 min		Wrap up: Low Temp, Co-Production Demonstration Session	11:30a-12:00p 30 min			11:40p-12:10p 30 min		Wrap Up: Reservoir Fracture Characterization & Fluid Imaging Session			
12:10p-12:40p 30 min			12:00p-12:10p 10 min		Audience Q&A	12:10p-12:40p 30 min					
12:10p-12:40p 30 min			12:10p-12:40p 30 min		Wrap up: Tracers / Zonal Isolation / Geochemistry Session	12:10p-12:40p 30 min					
12:40p-2:00p 80 min		Lunch - Jay Nathwani, DOE FY16 Lab AOP Session room: Westminster III & IV	12:40p-2:00p 80 min		Lunch - Jay Nathwani, DOE FY16 Lab AOP Session room: Westminster III & IV	12:40p-2:00p 80 min		Lunch - Jay Nathwani, DOE FY16 Lab AOP Session room: Westminster III & IV			
2:00p-2:30p 30 min			2:00p-3:40p 100 min		Industry Play Fairway Workshop – Request for Information	2:00p-3:40p 100 min		Lauren Boyd, DOE Code Comparison Workshop			
2:30p-3:00p 30 min											
3:00p-3:30p 30 min											
3:30p-3:40p 10 min											
3:30p-3:40p 10 min	Break		3:40p-4:00p 20 min	Break		3:40p-4:00p 20 min	Break				
4:00p-5:40p 100 min			4:00p-5:40p 100 min			4:00p-5:40p 100 min		Lauren Boyd, DOE Geochemistry/Tracers Workshop			